

EXAMPLE

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T-380 P.012/033 F-421

Appl. No. 10/680,328

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A ~~optics~~ carrier pack comprising:
 - a housing unit having multiple slots configured to accept optical modules;
 - a stack interconnect having a connector associated with a slot of the multiple slots of the housing unit[.];
 - ~~an-optics~~ a carrier pack connector electrically coupled to the connector of the stack interconnect.
2. (Currently amended) The carrier pack of claim 1, further comprising:
 - a main circuit board to supply an electrical path to couple the ~~optics~~ carrier pack connector to the connector of the stack interconnect.
3. (Currently amended) The carrier pack of claim 1, further comprising:
 - a main circuit board to supply an electrical path to couple the ~~optics~~ carrier pack connector to the connector of the stack interconnect and configured to convert a first signaling rate associated with an optical module that is inserted into the slot to a second signaling rate associated with a device coupled to the ~~optics~~ carrier pack connector.
4. (Currently amended) The carrier pack of claim 3 wherein the multiple optical modules, each optical module associated with one of the multiple slots of the carrier pack, share a common set of circuitry ~~in on the circuit module~~ main circuit board.
5. (Currently amended) The carrier pack of claim 1 wherein the stack interconnect is connected to the a main circuit board.
6. (Currently amended) The carrier pack of claim 1 wherein the stack interconnect includes a riser board and a mezzanine connector.
7. (Currently amended) The carrier pack of claim 2 wherein the stack interconnect includes a

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Amendments to the Specification:

Please replace the paragraphs starting at page 1, line 16 through to the paragraph ending at page 2, line 27 with the following paragraphs:

SUMMARY

In one aspect the invention features an optics carrier pack including a housing unit having multiple slots configured to accept optical modules, a stack interconnect having a connector associated with a slot of the multiple slots of the housing unit, and an optics carrier pack connector electrically coupled to the connector of the stack interconnect.

Embodiments may include one or more of the following. The carrier pack includes a main circuit board to supply an electrical path to couple the optics carrier pack connector to the connector of the stack interconnect. ~~The pack has a circuit board to supply an electrical path to couple the optics pack connector to the connector of the stack interconnect.~~ The main circuit board is configured to convert a first signaling rate associated with an optical module that is inserted into ~~the~~ a slot to a second signaling rate associated with a device coupled to the optics carrier pack connector. The optical modules share a common set of circuitry ~~in the circuit module on the main circuit board~~. In another example, the carrier pack includes status indicators associated with operation of the module or a slot. The faceplate may include the status indicators. The stack interconnect is connected to the main circuit board. The stack interconnect includes a repeater to relay a signal or a connection to the circuit module. The carrier pack includes two faceplates separated from each other by a slot in the housing, a light pipe, and/ or a heat sink. The heat sink may be included in an upper part of the housing.

In another embodiment, the stack interconnect can include a riser board and a mezzanine connector. The stack interconnect can include a riser board and a mezzanine connector to electrically couple the connector and the main circuit board. The mezzanine connector can include a male portion and a female portion. The male portion of the mezzanine connector attaches to the main circuit board and the female portion of the mezzanine connector attaches to the riser board. In another example, a female portion of the mezzanine connector attaches to the

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